

Lesson Plan

Name of faculty : PRITOSH

Discipline : COMPUTER ENGINEERING

Semester : 4th

Subject : OBJECT ORIENTED PROGRAMMING USING JAVA

Lesson Plan Duration : From 15.02.2024 to 14.06.2024

Work Load(Lecture/ Practical) per week (in hours): LECTURES-02, PRACTICALS – 04

Week	Theory		Practical	Topic
	Lecture day	Topic (including assignment / test)	Practical day	
1 st	1st	Fundamentals of object oriented programming		
	2nd	Procedure oriented programming Vs. object oriented programming (OOP)		
2 nd	3rd	Object oriented programming concepts		
	4th	Classes,object		
3 rd	5th	Object Reference,Abstraction		
	6th	Encapsulation,Inheritance		
4 th	7th	Polymorphism		
	8th	Introduction of Eclipse(IDE) for developing programs in Java		
5 th	9th	Review of constructs of C used in Java,Variables		
	10th	Type and type Declarations,Data Types		
6 th	11th	Increment and Decrement operators,Relational and Logical operators		
	12th	If then else clause,Conditional Expressions		
7 th	13th	Input using Scanner class and Output		
	14th	Loops,switch case		
8 th	15th	Arrays		
	16th	Methods in Java		

9 th	17th	Creation and Accessing class Members		
	18th	Private Vs Public Vs Protected Vs Default		
10 th	19th	Constructors		
	20th	Object and Object Reference, Definition of Inheritance		
11 th	21th	Constructor Chaining, Order of Invocation		
	22nd	Types of Inheritance, Single Inheritance		
12 th	23rd	Multilevel Inheritance, Hierarchical Inheritance		
	24th	Hybrid Inheritance		
13 th	25th	Method & Constructor Overloading		
	26th	Method Overriding		
14 th	27th	up-Casting and down-casting in Java		
	28th	Key Points of Abstract class & Interface, Difference between abstract class & interface		
15 th	29th	Implementation of multiple inheritance through interface, Definition of Exception Handling		
	30th	Implementation of keywords like try, catch, finally, throw & throws, Importance of exception handling in practical implementation of live projects		